

WHAT IS CLAIMED IS:

1. An information record medium, on which information is to be recorded by means of an information recording apparatus which sequentially detects an amount of data of each data group to be recorded, sequentially records each of the data group on a first recording layer when a total of the detected amounts of data is equal to or smaller than a first recording capacity, and sequentially records the data group detected lastly on a second recording layer when the total of said detected amounts of data is over said first recording capacity and the amount of data of said data group detected lastly is equal to or smaller than a second recording capacity, which comprises:

the first recording layer which has the first recording capacity, and on which the data group having at least one of video information and audio information is recorded as a minimum unit; and

the second recording layer which has the second recording capacity, and on which the data group having at least one of video information and audio information is recorded as a minimum unit.

2. An information recording apparatus for recording a plurality of data groups each having at least one of video information and audio information on an information record

medium provided with a first recording layer having a first recording capacity and a second recording layer having a second recording capacity, which comprises:

a data receiving means for sequentially receiving each of the data groups to be recorded on said information record medium;

a data-amount detecting means for sequentially detecting an amount of data of each of the received data groups;

a first calculating means for sequentially calculating a total of the amounts of data detected by means of said data-amount detecting means;

a first judging means for sequentially judging as whether the total of the amounts of data calculated by means of said first calculating means is equal to or smaller than said first recording capacity; and

a first recording means for sequentially recording each of the data groups on said first recording layer, when the total of the amounts of data calculated by means of said first calculating means is judged to be equal to or smaller than said first recording capacity.

3. An information recording apparatus as claimed in Claim 2, further comprises:

a second calculating means for sequentially calculating a total of amounts of data exceeding said first recording

capacity when the total of the amounts of data calculated by means of said first calculating means is judged to be over said first recording capacity;

a second judging means for sequentially judging as whether the total of the amounts of data calculated by means of said second calculating means is equal to or smaller than said second recording capacity; and

a second recording means for sequentially recording the data group exceeding said first recording capacity on said second recording layer when the total of the amounts of data calculated by means of said second calculating means is judged to be equal to or smaller than said second recording capacity.

4. An information recording apparatus as claimed in Claim 2, wherein said first calculating means calculates the total of the amounts of data detected by means of said data-amount detecting means, in order of quantity of the amounts of data detected thereby.